BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads and Drains at Narasipura Layout in Ward No. 14 (Vidyaranyapura).

Estimated Cost : Rs. 40.00 Lakhs

Job Code: 014-23-000007

Head of Account : P3726 Zonal Public Works

Name of Agency: Sri Umesha H C, No. 42/E Ms. Green City Layout, Andarahalli, Bangalore - 560091.

Work Order: BBMP/EE/BTP/WO/147/2022-23 Dated: 04-03-2023.

	Date of Recording:	14-08-2023					
Sl No	**Description of work**	**Mesurement**				**Qty.**	**Unit**
		No.	**L**	**B**	**D**		
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						
	New Drain						
	Narasipura Phase 1	1	18.20	1.00	1.00	18.20	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.60	1.20	28.80	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.50	1.20	27.00	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.20	1.20	21.60	
		1	10.00	1.10	1.20	13.20	
		1	15.00	1.10	1.20	19.80	
		1	15.00	1.05	1.20	18.90	
		1	15.00	1.00	1.20	18.00	
		1	15.00	1.20	1.20	21.60	
		1	15.00	1.25	1.20	22.50	
		1	14.00	1.50	1.20	25.20	
	Narasipura Phase 2						
		1	9.40	1.20	1.10	12.41	
		1	15.00	1.20	1.10	19.80	
		1	2.50	1.50	1.20	4.50	
	Narasipura, Dura Temple Road						
	N/S	1	15.00	1.20	1.10	19.80	
		1	15.00	1.20	1.10	19.80	
		1	15.00	1.20	1.10	19.80	

AEE (VRP) SL

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		1	15.00	1.20	1.10	19.80	
		1	15.00	1.20	1.10	19.80	
		1	15.00	1.20	1.10	19.80	
		1	7.00	1.20	1.10	9.24	
		1	20.00	1.20	1.10	26.40	
	Desilting of Drain	1	30.00	0.45	0.45	6.08	
		1	15.00	0.45	0.45	3.04	
		Total Qty =				**521.46**	
		Qty Limited to App Qty =				**521.04**	Cum

AEE (VRP) SD

AEE (VRP) SD

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Date of Recording:	25-08-2023					
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						
	New Drain						
	Narasipura Phase 1	1	18.20	1.00	0.15	2.73	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.60	0.15	3.60	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.50	0.15	3.38	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	10.00	1.10	0.15	1.65	
		1	15.00	1.10	0.15	2.48	
		1	15.00	1.05	0.15	2.36	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.25	0.15	2.81	
		1	14.00	1.50	0.15	3.15	
	Narasipura Phase 2						
		1	9.40	1.00	0.15	1.41	
		1	15.00	1.00	0.15	2.25	
		1	2.50	1.50	0.15	0.56	
	Narasipura, Dura Temple Road						
	N/S	1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	7.00	1.20	0.15	1.26	
		1	20.00	1.20	0.15	3.60	
		Total Qty =				**65.89**	
		Qty Limited to App Qty =				**65.13**	Cum

AEE (VRP) SD

AEE (VRP) SD

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Date of Recording:	27-09-2023					
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						
	New Drain						
	Raft						
	Narasipura Phase 1	1	18.20	1.00	0.15	2.73	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.60	0.15	3.60	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.50	0.15	3.38	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	10.00	1.10	0.15	1.65	
		1	15.00	1.10	0.15	2.48	
		1	15.00	1.05	0.15	2.36	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.25	0.15	2.81	
		1	14.00	1.50	0.15	3.15	
	Narasipura Phase 2						
		1	9.40	1.00	0.15	1.41	
		1	15.00	1.00	0.15	2.25	
		1	2.50	1.50	0.15	0.56	
	Narasipura, Dura Temple Road						
	N/S	1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	15.00	1.20	0.15	2.70	
		1	7.00	1.20	0.15	1.26	
		1	20.00	1.20	0.15	3.60	
	Side Wall						
	Narasipura Phase 1	2	18.20	0.15	0.85	4.64	
		2	15.00	0.15	0.89	4.01	
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.89	4.01	

AEE (VRP) SD

AEE (VRP) SD

AEE (VRP) SD

AEE (VRP) SD

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		2	15.00	0.15	0.88	3.96	
		2	15.00	0.15	0.90	4.05	
		2	10.00	0.15	0.89	2.67	
		2	15.00	0.15	0.88	3.96	
		2	15.00	0.15	0.80	3.60	
		2	15.00	0.15	0.90	4.05	
		2	15.00	0.15	0.88	3.96	
		2	15.00	0.15	0.90	4.05	
		2	14.00	0.15	0.90	3.78	
	Narasipura Phase 2						
		2	9.40	0.15	0.62	1.75	
		2	15.00	0.15	0.60	2.70	
		2	2.50	0.15	0.61	0.46	
	Narasipura, Dura Temple Road						
	N/S	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.58	2.61	
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.60	2.70	
		2	7.00	0.15	0.59	1.24	
		2	20.00	0.15	0.59	3.54	
		Total Qty =				**150.47**	
		Qty Limited to App Qty =				**150.30**	Cum

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Divisi
B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Date of Recording:	27-09-2023					
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	Narasipura Phase 1						
	10 mm dia	2339	3.00	7017.00	0.62	4350.54	
	8 mm dia	26	222.20	5777.20	0.39	2253.11	
	Total					**6603.65**	
	Narasipura Phase 2						
	10 mm dia	284	2.10	596.40	0.62	369.77	
	8 mm dia	16	26.90	430.40	0.39	167.86	
	Total					**537.62**	
	Narasipura, Dura Temple Road						
	10 mm dia	985	2.10	2068.50	0.62	1282.47	
	8 mm dia	16	97.00	1552.00	0.39	605.28	
	Total					**1887.75**	
	RCC Drain Total					**9029.02**	Kgs
		Total Qty =				**9.03**	Tonne
		Qty Ltd to Tender Qty =				**9.02**	Tonne

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97